



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54087

Entry Year 2017

Acreage: 2,067

County Alpena

Management Area: Alpena Lake Plain

Revision Date: 2015-06-18

Stand Examiner: Dale Parris

Legal Description:

T30N R07E Sections 1, 12, 13, and 24

Identified Planning Goals:

All harvests have been prescribed following the direction indicated in the Alpena Lake Plains Management Area (ALPMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. The timber analysis completed on the ALPMA indicated that the lowland deciduous, aspen, lowland aspen, and red pine covertypes be of focus for harvest for the purpose of balancing the age classes of these covertypes across the Management Area (MA). Wildlife, recreation, aesthetics, adjacent stands, and the larger landscape were considered in all management decisions.

Soil and topography:

The topography of Compartment 87 is flat, with few hills. In areas the terrain might be considered to be slightly rolling.

In general, the southern half of the compartment has better drainage than the northern half. The soils in the northern half of the compartment are dominated by the poorly drained Deford muck. Also present in the northern half and representing the higher ground areas are Finch sand (somewhat poorly drained), and the Proper-Deford-Rousseau complex (moderately well drained).

The higher ground of the southern half of Compartment 87 is dominated by Au Gres sand that is characterized as being somewhat poorly drained. In the few lower areas, the poorly drained Deford muck is present. Skirting the western edge of this southern half is East Lake sand which is somewhat excessively drained.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The land directly adjacent to Compartment 87 is mostly state owned. There are a few residential homes along Brilinski Road at center of the compartment. There are also residences along the southern edge and a few centered along the west edge of the northern half of the compartment. The County of Alpena uses a forty along Brilinski Road, adjacent to Compartment 87 to the west, as a gravel pit.

The snowmobile trail network goes through the central portion of the compartment. This snowmobile trail also doubles as an equestrian trail. The Norway Ridge Ski Trails comes within one-eighth of a mile of the west edge of the northern most portion of the compartment.

Unique Natural Features:

Compartment 87 has a number of well stocked naturally regenerated red pine stands that range from 80 to 120 years old. It also has stands dominated by high quality naturally regenerated white pine.

Archeological, Historical, and Cultural Features:

The HAL (Department of History, Arts, and Libraries) and MNFI (Michigan Natural Features Inventory) Concerns Database did not have any concerns listed for the area that Compartment 87 is in.

The Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website turned up 3 cases of rare species that might be present in Compartment 87. The first was Douglas hawthorn (*Crataegus Douglasii*) in Section 13 and 24 of T30N R07E. The second was Santiny willow (*Salix pellita*) in Section 1 of T30N R07E. The third was pine-drops (*Pterospora andromedeae*) in Section 1 of T30N R07E and in Section 24 T30N R07E SESE.

There are no Special Conservation Areas located in Compartment 87.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed featured species found in this compartment. These species include ruffed grouse, black bear, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest, retention of lowland cedar habitation, the retention of large, over-mature trees and snags and the maintenance and expansion of hard mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel. The glacial drift thickness varies between 0 and 200 feet. Beneath the glacial drift are the Devonian Antrim Shale and Traverse Limestone. The Traverse is quarried for stone and both are quarried for cement products. Gravel pits are indicated in sections 23 and 24, but they appear to be inactive and overgrown. There may be sand and gravel potential in the south, but sediments appear to be rich in clay. This area has not had development for the Antrim Shale because the Antrim is shallow and thinning in this area and potential for production is limited. Wells are located in sections 23 and 25. There are no State oil and gas leases in the compartment but active leases exist in sections 23, 25, and 30, less than one mile from the southern extent of the compartment.

Vehicle Access:

Compartment 87 is accessible from Spruce Road along the southern portion of the east edge, and from Werth Road along the central portion of the east edge. The central portion of compartment is accessible using Brilinski Road and Werth Road. In the south and central regions of the compartment the forest trails offer moderate access. In the northern half of the compartment forest trails only reach the western edge and only come within a quarter mile of the eastern edge of the compartment. Note that the northern portion of Compartment 87 is a mile wide and consists of mainly low ground/deciduous forest that is not conducive for carrying fire, largely negating the need for fire vehicle prevention/suppression access.

Survey Needs:

There are no surveys needed at this time.

Recreational Facilities and Opportunities:

The snowmobile network has one snowmobile trail that runs the length of the central region of this compartment. This snowmobile trail also doubles as an equestrian trail during suitable times of the year. Compartment 87 offers good hunting throughout, but access to the northern half of the compartment is limited as noted in the Vehicle Access section above.

Fire Protection:

Compartment 87 is in the protection area of the Alpena DNR and the Wilson Township Fire Department. Located in the east-central portion of Alpena County, Compartment 87 is a short ride for Alpena DNR fire personnel. The Wilson Township Fire department would most likely arrive on scene at approximately the same time as the Alpena DNR. The Alpena DNR has mutual aid agreements with the Wilson Township Fire Department. Fires in this area have not been large in the past due to the dominate timber types present. Historically, wildfires in this hardwood dominated area have mainly been caused by debris from burning campfires. The south and central portions of the compartment are more fire prone than the northern portions, and these southern portions have the best access for fire suppression.

Additional Compartment Information:

Compartment 87 is dominated by the lowland deciduous covertime to the north, and a variety of upland covertypes to the south. The south and central regions of the compartment contain stands of healthy-mature naturally grown red pine and white pine. Both the north and south regions have stands dominated by northern white cedar that are important wintering grounds for whitetail deer. One particular stand at the center of the compartment and on its west edge is oak dominated and provides important mast to whitetail deer and other wildlife. In addition, two stands in the southern most portions of the compartment, near lowland conifer covertypes, have a large percentage of red oak and are also very important mast trees for wildlife. Red oak were observed growing rapidly in aspen, and various other covertypes in the southern quarter to third of the compartment. Although these oak did not make up a major component of these stands, scattered red oak grew fast enough in these stands to remain a small but significant component.

The following reports from the Inventory are attached:

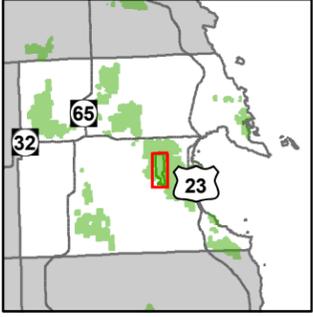
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

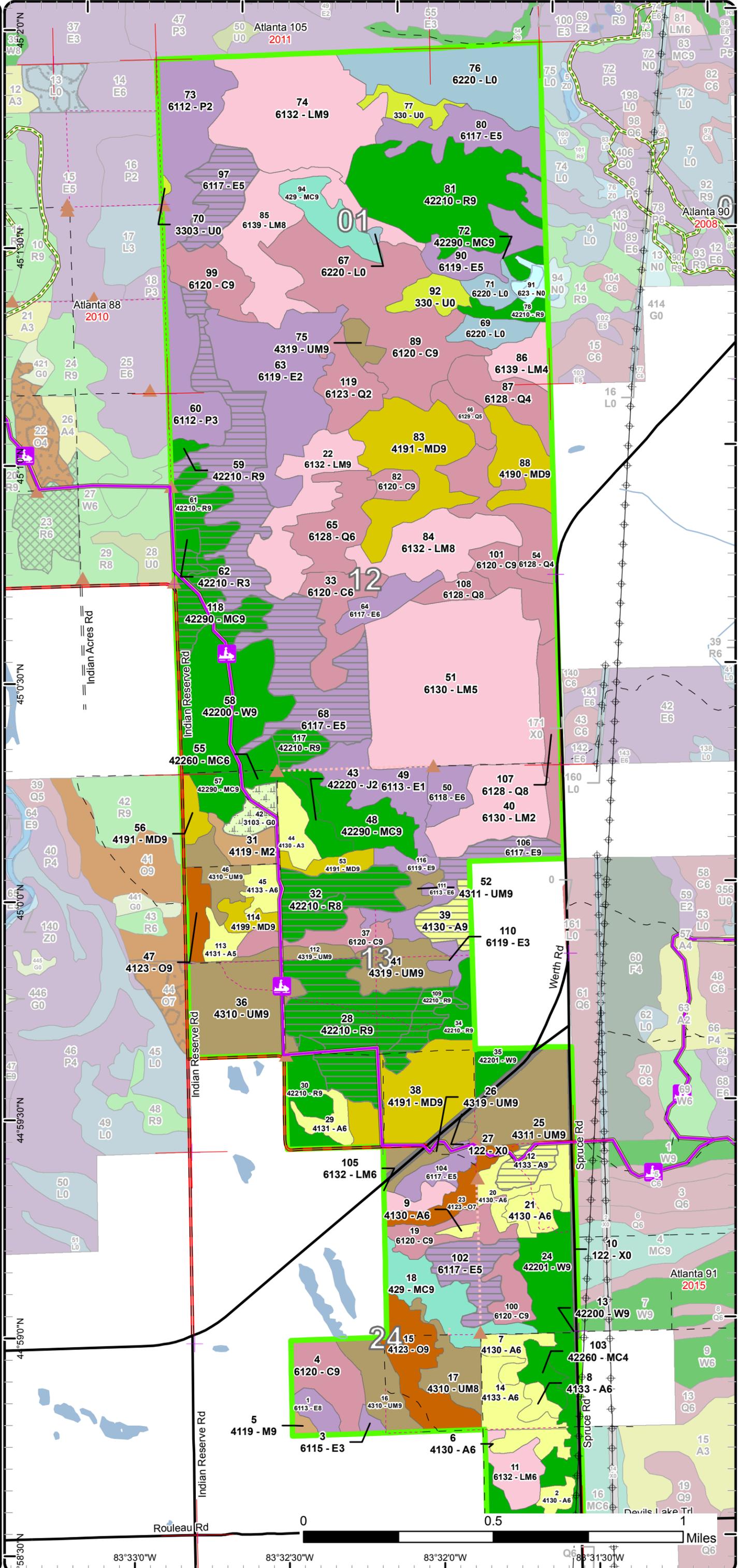
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 87
 T30N, R07E, Sec: 1, 12, 13, 24
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2017
 Acres: 2067 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 5/4/2015
 Map Phase: Pre-Review

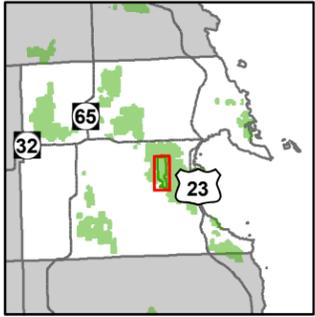


- ✚ Remonumented Section Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- ▲ Berms
- 🛷 Snowmobile Trails
- Hiking Pathways
- Bicycle/Dirt Bike Trails
- Ski Trails
- Snowmobile Trails
- Rivers
- Lakes
- ⚡ Powerline
- Treatments**
- ▭ Clearcut (w/Reserves)
- ▭ Other Treatment - See Comments
- Forest Covertype**
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertype**
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map

Compartment: 87
 T30N, R07E, Sec: 1, 12, 13, 24
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2017
 Acres: 2067 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 5/4/2015
 Map Phase: Pre-Review



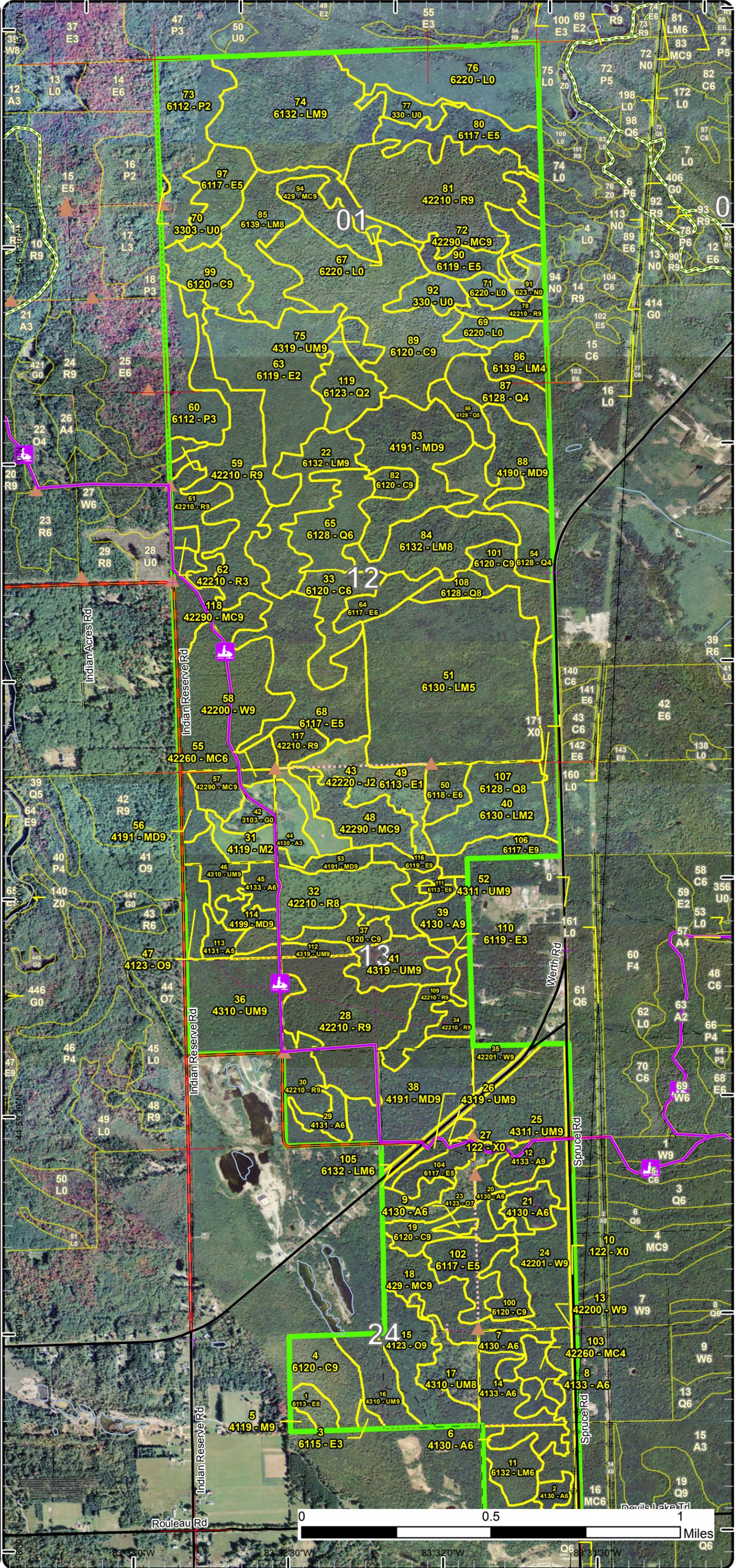
- + Remonumented Section Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
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- Stand Boundaries

Forest Covertypes

- 411 - Northern Hardwood
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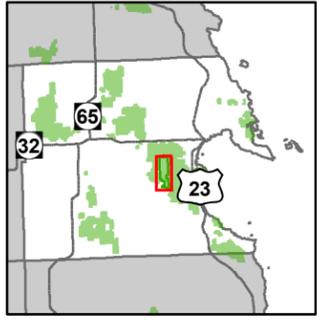
Non-Forest Covertypes

- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

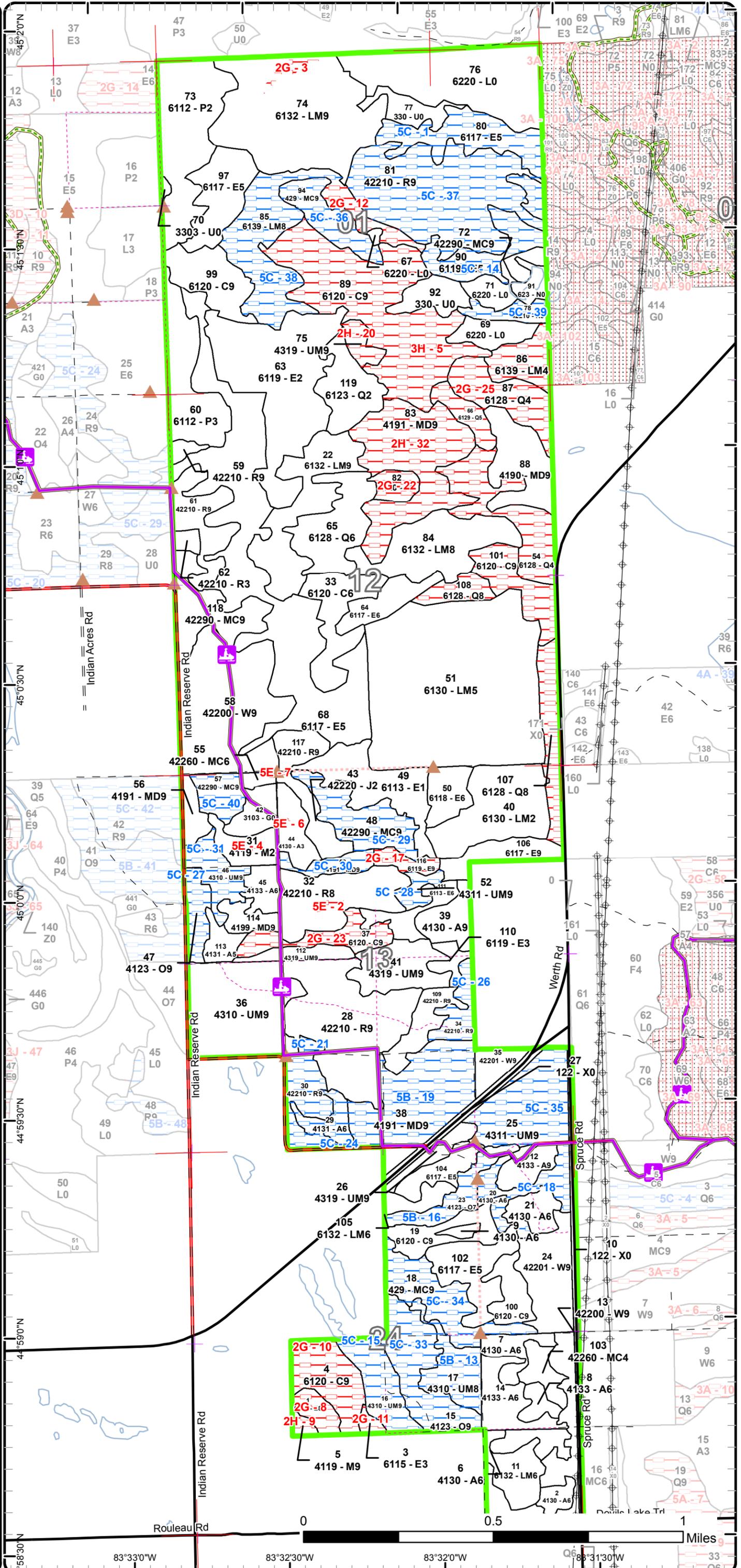


Special Conservation Areas & Site Conditions Map

Compartment: 87
 T30N, R07E, Sec: 1, 12, 13, 24
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2017
 Acres: 2067 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 5/4/2015
 Map Phase: Pre-Review



- + Remonumented Section Corners
- Miris Corners
- Paved Roads
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- ▲ Berms
- Snowmobile Trails
- - - Hiking Pathways
- - - Bicycle/Dirt Bike Trails
- - - Ski Trails
- Snowmobile Trails
- Rivers
- Powerline
- Stand Boundaries
- Recommendation
- SCA
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3H: Deer Wintering Areas
- 5E: Long-Term Retention
- Special Conservation Areas
- Other SCA (No Category Assigned)



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment 87 Year of Entry 2017



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	10	0	0	28	45	15	0	0	11	0	0	0	0	0	0	0	0	109
Cedar	0	0	0	0	0	0	0	0	0	19	6	163	0	0	0	0	0	0	188
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Aspen/Balsam Poplar	0	0	0	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Lowland Conifers	0	0	0	18	0	24	53	0	7	0	0	16	0	0	0	0	0	0	118
Lowland Deciduous	0	25	0	60	4	11	11	36	143	22	20	0	0	0	0	0	0	0	332
Lowland Mixed Forest	0	0	0	33	123	19	0	0	54	0	0	102	32	0	0	0	0	0	363
Lowland Shrub	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	6	40	0	6	47	7	21	0	0	0	0	0	0	0	127
Natural Mixed Pines	0	0	0	0	2	0	7	0	34	21	0	0	0	0	0	0	0	0	64
Northern Hardwood	0	9	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	11
Oak	0	0	0	0	0	0	0	0	0	12	0	35	0	0	0	0	0	0	47
Red Pine	0	0	0	0	2	0	0	0	10	154	45	0	0	6	0	0	0	0	217
Upland Conifers	0	0	0	0	0	0	0	0	0	0	15	23	0	0	0	0	0	0	38
Upland Mixed Forest	0	0	0	0	0	0	8	0	48	67	5	15	16	0	0	0	0	0	159
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0	106
Total	114	53	0	177	165	139	94	42	343	421	112	354	48	6	0	0	0	0	2068



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 87

Year of Entry: 2017

Acres of Harvest

Total Compartment Acres: 2,067

Commercial Harvest - 0
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 18

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	19	0	0	0	0	0	0	0	0	19
Lowland Deciduous	148	0	0	0	0	0	0	0	0	148
Natural Mixed Pines	21	0	0	0	0	0	0	0	0	21
Red Pine	98	0	0	0	0	0	0	0	0	98
Total	286	0	0	0	0	0	0	0	0	286

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	286	0	9	0	0	0	0	0	8	304
Next Step	0	151	107	0	0	107	402	0	0	767
Total	286	151	116	0	0	107	402	0	8	1070



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
12	54087012-Cut	8.5	4133 - Aspen, Mixed Pine	Sawtimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Clear-cut leaving 3-5 percent of stand representative pocket retention. Place retention along both sides of the run-off to the north to protect its integrity. Include specs to protect snowmobile trail and users.

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked aspen stand with lesser components of red maple, balsam fir, white pine, and jack pine.

Other Comment: The aspen in this stand is larger than the aspen in the adjacent aspen stand and these trees are developing conks/overall less healthy. Include specs to protect snowmobile trail and users. Old next step comments:

Proposed Start Date: 10/1 /2016

28	54087028-Cut	52.4	42210 - Natural Red Pine	Sawtimber Well	86	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear-cut with 3-10% retention in multiple pockets. Replant to red pine. Consider the ease of herbicide application, trenching, and planting when placing retention pockets. Retain the sap/pole aspen pocket that is central to the stand along with its surrounding red pine edge. This retention pocket around the aspen would create a visual block for this stand and the adjacent red pine stand to the east that is also being harvested. Also place retention in multiple pockets that include oak if present. Include specs to protect snowmobile trail and users. Include 2 inch chip spec.

Next Step
Treatments: Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is a well stocked stand of red pine with lesser components of red maple, white pine, and aspen.

Other Comment: There are very few if any large red oak in this stand. None where seen during inventory. Include specs to protect snowmobile trail and users. Old next step comments:

Proposed Start Date: 10/1 /2016

31	54087031-Plant	9.4	4119 - Mixed Northern Hardwoods	Sapling Medium	6	1-50	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Plant to red pine per 2007 inventory compartment review agreement.

Next Step
Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Acceptable Regen: Acceptable regeneration is a stand dominated by red pine.

Other Comment: Plan the work on this stand so that it will be done with stand 32 to the southeast. Old next step comments:

Proposed Start Date: 10/1 /2016

32	54087032-Cut	27.1	42210 - Natural Red Pine	Sawtimber Medium	95	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Clear-cut. Retain 3 percent as an island in the center of the stand.

Next Step
Treatments: Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is a well stocked stand of red pine with lesser components of red maple, aspen, red oak, white pine, and jack pine.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2013



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
39	54087039-Cut	10.6	4130 - Aspen	Sawtimber Well	86	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Clear-cut. Retain all white pine and red oak. Focus the retention around the lower lying area that runs from north to south near the center of the stand. Include stand representative species in the retention.

Next Step
Treatments:

Acceptable Acceptable regeneration is a medium to well stock stand of aspen with lesser components of red maple and white pine.
Regen:

Other Communicate with the neighbor to the east about the harvest. Logging equipment will likely disturb the horses on their property. Old next step
Comment: comments:

Proposed Start Date: 10/1 /2016

42	54087042-NF	8.4	3103 - Rubus-Fern	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Plant mast and fruit-bearing shrubs within open areas to promote values for wildlife.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 5 /1 /2015

68	54087068-Cut	98.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	77	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clear-cut with retention. Frozen ground winter harvest only. Place 7-10% retention around the pockets of cedar while also including representative elements of the stand in these pockets. Retain all white pine and any red oak present. Include specs to protect snowmobile trail and users.

Next Step
Treatments:

Acceptable Acceptable regeneration is a low to medium stocked stand of aspen, red maple, paper birch, spruce, and balsam fir.
Regen:

Other Include specs to protect snowmobile trail and users. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

97	54087097-Cut	19.6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	91	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clear-Cut with retention. Retain 3-5% of the lowest density wet areas. Retain the upland island to the north of this stand for its uniqueness to the area. Retain all northern white cedar. Frozen ground winter cut only due to the wet soils. Include specs to protect snowmobile trail and users.

Next Step
Treatments:

Acceptable Acceptable regeneration a low to medium stocked stand of aspen, red maple, paper birch, and balsam fir.
Regen:

Other Include specs to protect snowmobile trail and users. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
102	54087102-Cut	17.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	66	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Clear-cut with retention. Retain all oak, red pine, white pine, and cedar. Save the legacy northern white cedar at the mouth of the opening to the south end of the stand in a retention pocket. The retention will be greater than 10 percent due to the northern white cedar.

Specs:
Next Step
Treatments:

Acceptable Regen: Acceptable regeneration is a medium stocked stand of red maple, red oak, paper birch, balsam fir, white pine, and aspen.

Other Comment: There is ample cedar in the low spots. There is a trace element of red and white pine in the overstory. Old next step comments:

Proposed Start Date: 10/1 /2016

106	54087106-Cut	11.5	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	86	111-140	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear-Cut leaving 3-10% retention in pockets. Leave all white pine, red pine, and northern white cedar.

Specs:
Next Step
Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of aspen, red maple, paper birch, balsam fir, and white pine.

Other Comment: There is not enough white pine, red pine, and cedar present to make harvesting difficult if it is all retained. Old next step comments:

Proposed Start Date: 10/1 /2016

109	54087109-Cut	10.8	42210 - Natural Red Pine	Sawtimber Well	88	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear-cut with retention. Replant to red pine. Focus 3-10 percent retention around red oak mast trees. Consider leaving retention pockets around pockets of young oak. Situate retention pocket(s) in a manner that will not make replanting/herbicide application difficult. Chip tops down to 2 inches in diameter.

Next Step Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is a well stocked stand of red pine with lesser components of red maple, white pine, and aspen.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

117	54087117-Cut	7.3	42210 - Natural Red Pine	Sawtimber Well	75	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear-cut. Do not leave any retention due to the small size of the stand. Chip tops down to 2 inches. Replant to red pine. Include spec. to protect snowmobile trail and users.

Next Step Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is a well stocked red pine stand with lesser components of red oak, red maple, and white pine with trace paper birch and aspen.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
118	54087118-Cut	21.0	42290 - Natural Mixed Pine	Sawtimber Well	75	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Clear-cut leaving all oak and 2-3 white pine and/or red pine per acre with a preference for white pine. Protect the white pine regeneration with a
Specs: roundwood operation. Retain 3-10% of the stand with pockets placed around 26" + DBH white pine. Include specs to protect snowmobile trail and users.

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of white pine, aspen, jack pine, red maple, paper birch, and red oak.

Other Comment: Include specs to protect snowmobile trail and users. Old next step comments:

Proposed Start Date: 10/1 /2016

**Total Treatment
 Acreage Proposed: 303.5**

Report 5 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 87
Year of Entry: 2017

Dominant Site Conditions

	2H	3H	5B	5C	5E
Aspen				20	0
Cedar		72			
Herbaceous Openland					
Jack Pine					0
Low-Density Trees					
Lowland Aspen/Balsam Poplar					
Lowland Conifers					
Lowland Deciduous				44	
Lowland Mixed Forest				35	
Lowland Shrub					
Marsh					
Mixed Upland Deciduous	47		40	7	
Natural Mixed Pines				30	
Northern Hardwood	2				0
Oak			12	35	
Red Pine				98	1
Upland Conifers				38	
Upland Mixed Forest	5		15	63	
Urban					
White Pine					
Total Forested Acres	54	72	67	369	2
Relative Percent					

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Areas	72	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

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Year of Entry: 2017

21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	3H: Deer Wintering Areas	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	103	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There is very little oak to the east of this area and deer from the east rely on this mature oak stand heavily for mast feed.							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand serves as a buffer between two relatively large clear-cuts.							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand serves as a buffer between two relatively large clear-cuts.							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

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33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 87
Year of Entry: 2017

39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Mgt. Unit

Compartment:

Year of Entry



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6113 - Lowland Maple	Sawtimber Medium	6.2	88	81-110	This stand is too wet to harvest.
2	4130 - Aspen	Poletimber Well	4.2	42	1-50	There are a few scattered super canopy red oak trees present that were retained during the previous harvest. There are red oak present that grew from seed and kept up with the bigtooth aspen. These oak are very smoothed barked and only a single tree is present (not in clumps).
3	6115 - Lowland Ash	Sapling Well	2.1	57	1-50	This stand was mapped because it is a lowland stand adjacent to an upland stand and it is significantly lower ground than the cedar stand to the south. This stand is likely flooded most of the year. This stand is too wet to be included in a harvest.
4	6120 - Lowland Cedar	Sawtimber Well	19.3	89	111-140	Cedar windthrow is present in various portions of the stand. Basal area varies throughout the stand.
5	4119 - Mixed Northern Hardwoods	Sawtimber Well	2.0	85	141-170	This stand cannot be reached for harvest due to it secluded location. Access to the stand is blocked by cedar swamp and private property. The stand is small and was mapped due to it being adjacent to a lowland stand.
6	4130 - Aspen	Poletimber Well	7.1	39	51-80	
7	4130 - Aspen	Poletimber Well	7.8	42	1-50	The stand is healthy and well stocked. The red oak present are vigorous, fast growing, and from seed (smooth bark/single tree).
8	4133 - Aspen, Mixed Pine	Poletimber Well	4.3	42	1-50	
9	4130 - Aspen	Poletimber Well	1.7	45	51-80	This stand is an island in the center of a cedar stand that has access from the east for harvest. Harvest this stand in the 2027 YOE.
11	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	12.7	40	51-80	The northern white cedar is regenerating relatively fast on this site.
12	4133 - Aspen, Mixed Pine	Sawtimber Well	8.5	54	81-110	There is a stream or run-off at the north end of the stand. The larger bigtooth aspen are already dying. This stand needs a treatment.
13	42200 - Natural White Pine	Sawtimber Well	21.7	87	111-140	This stand has some variance in the age of the white pine in the canopy due sapling to pole sized residual trees left during the last harvest.
14	4133 - Aspen, Mixed Pine	Poletimber Well	13.8	42	51-80	The north peninsula of the stand running east-west is a small cedar swamp.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4123 - Red Oak	Sawtimber Well	25.9	104	81-110	There is an inclusion in the southeast corner of the stand that has a trace amount of white ash, hemlock, and northern white cedar of log size. The red maple and big-tooth aspen in the understory are primarily in the northern most portion of the stand. Although they are healthy, the red oak and red pine in the canopy have reached their max growth. (Their newest growth rings are very thin.) The red oak are of low to medium quality. This stand is very important to the local wildlife, especially the whitetail deer. The oak in this stand provide a large amount of mast acorns to that help the deer through the winter as evidenced on the ground. The value of the mast provided by this stand go way beyond timber value. Deer over winter in the thermal cover of the cedar to the west and the mixed conifer to the north and feed on the acorn mast in this stand.
16	4310 - Pine, Oak Mix	Sawtimber Well	16.3	110	111-140	This stand is very important to the local wildlife, especially the whitetail deer. The oak in this stand provide a large amount of mast acorns to that help the deer through the winter as evidenced on the ground. Although they are healthy, the red pine and red oak are seeing very little growth at this point. The value of the mast and cover provided by this stand go way beyond timber value. Deer over winter in the thermal cover of the cedar to the west and feed on the acorn mast in this stand.
17	4310 - Pine, Oak Mix	Sawtimber Medium	14.8	104	1-50	A species removal harvest was completed on this stand in 2011. The prescription completed in 2011 said to remove all species except red pine, white pine, cedar, oak, and hemlock. The basal area within the stand is sporadic. In some places it is in the 1-50 range and in other places it is in the 50-80 range.
18	429 - Mixed Upland Conifers	Sawtimber Well	22.7	108	111-140	This stand provides an enough thermal and visual cover to the wildlife to make it a strong candidate for retention. These characteristics are lacking in some adjacent areas due to past harvests, making this stand unique and beneficial to wildlife in this area. This stand switches from higher ground that is red pine dominated to lower ground that is cedar dominated quite frequently throughout.
19	6120 - Lowland Cedar	Sawtimber Well	13.3	101	141-170	The seedling size balsam fir in the understory are all in the western half of the stand. The northern edge of the stand is a pole sized inclusion that is cedar dominated. The western portion of the stand is a borderline pole sized stand. The eastern portion of the stand has a higher proportion of log sized trees. The east and west half of the stands are both cedar dominated with different compositions of species filling in the overstory. The white spruce, black spruce, red maple, and hemlock are mostly in the eastern half. The quaking aspen are mostly in the western half.
20	4130 - Aspen	Poletimber Well	13.6	49	81-110	The bigtooth aspen are in good health. Harvest this stand in the 2027 YOY. Species composition near the run-off is higher to conifer. The basal area is the highest to the east near Spruce Rd.
21	4130 - Aspen	Poletimber Well	7.7	35	1-50	
22	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	32.4	116	81-110	Basal area is highest in the cedar pockets. The BA varies from 20-200. This stand is too wet to harvest. High windthrow amounts are present in the north end of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4123 - Red Oak	Sawtimber Poor	11.8	80	1-50	A species removal harvest was completed on this stand in 2011. The prescription completed in 2011 said to remove all species except red pine, white pine, cedar, oak, and hemlock. It has about 50 percent regeneration present. There is little to no oak regeneration coming in. The 2.7 acres to the north is an inclusion that varies some from the main data. This inclusion contains the last harvest landing and some field. This inclusion contains Medium oak regeneration 10-20 ft. tall, and low white pine regeneration 5-10 ft. tall. This inclusion has about 25 percent canopy that is mostly oak.
24	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	22.1	89	141-170	The canopy of this stand is 25% mature aspen that could be harvested. Since this is a white pine stand and white pine stands are only 1% of the Alpena Lake Plains Management Area it would be best to let the aspen fall out of this stand and harvest in the future when perpetuating white pine would be more manageable. This stand should be kept in white pine as much as possible. This ground grows great white pine.
25	4311 - Pine, Aspen Mix	Sawtimber Well	30.6	85	141-170	This stand offers some unique features to this area in tree species/covertime diversity and visual esthetics to snowmobile trail users and travelers on Werth Road. Our Alpena Lake Plains Management Area plan does not call for the harvesting of mixed upland conifer at this point due to its low representation in the MA. Perpetuating white pine in this stand would require the aspen to die out before harvest. There are narrow run-offs/seasonal creeks throughout the stand. These water flow areas are dominated by conifer making for good wildlife travel corridors. Red oak in this area grows fast and can regenerate with aspen (There are stands that are examples of this rapid red oak growth throughout the southern portion of this compartment. It is unknown whether they are from seed or root suckers.) There is approximately a 4 acre inclusion in the northeast corner of the stand with some lower ground and various tree species.
26	4319 - Mixed Upland Forest	Sawtimber Well	8.4	51	111-140	This stand has the older red pine and white pine with a mix of other ages from past disturbances. The dominate age was given to the bigtooth aspen that are predominantly to the east end of the stand.
28	42210 - Natural Red Pine	Sawtimber Well	52.4	86	141-170	The basal area in this stand ranges from 120-200+. 60 percent of the timber is 13-14" DBH plus sized timber.
29	4131 - Aspen, Oak	Poletimber Well	6.8	53	51-80	The east side of the stand is a lowland inclusion with tag alder and saplings. The BA is highly variable throughout. The timber diminishes in size from west to east. Log sized red pine and red oak are scattered throughout (These trees were likely left over from the last harvest.
30	42210 - Natural Red Pine	Sawtimber Well	16.5	87	171-200	There might be a small enough average diameter to apply another thinning. With the high percentage of deciduous I believe it would be best to clear-cut this red pine stand and start over.
31	4119 - Mixed Northern Hardwoods	Sapling Medium	9.4	6	1-50	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	42210 - Natural Red Pine	Sawtimber Medium	28.3	95	1-50	This is a failed red pine seed tree. This stand has been sold. The top will be taken off and it will be planted to red pine.
33	6120 - Lowland Cedar	Poletimber Well	20.2	100	111-140	Pockets of pole/sapling sized lowland deciduous/tag alder throughout. This is a borderline log stand. This stand is too wet to harvest.
34	42210 - Natural Red Pine	Sawtimber Well	8.7	85	141-170	The basal area varies throughout and reaches as high as 200 in some areas.
35	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	6.6	85	111-140	The red maple and bigtooth in the canopy are intermediate trees.
36	4310 - Pine, Oak Mix	Sawtimber Well	43.1	73	111-140	The size of the bigtooth aspen varies throughout. The oak vary in DBH throughout but there is more pole sized red oak than log sized. The log sized red oak is mostly by the roads to the south and west. There is a substantial amount of log sized 12-19" red oak present in these areas. The size of the red pine is fairly consistent throughout. The north half of the stand is lower ground but it is still upland. Growth on the red pine is very low at this point.
37	6120 - Lowland Cedar	Sawtimber Well	13.5	105	171-200	This stand is too wet to harvest. There is substantial windthrow present at the west end of the stand.
38	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	40.5	43	111-140	This stand was clear-cut but pockets of log sized trees in low lying more wet areas were left throughout. This stand should be managed as a pole stand.
39	4130 - Aspen	Sawtimber Well	10.6	86	51-80	
40	6130 - Fir, Aspen, Maple	Sapling Medium	32.5	27	1-50	This stand has a continuous mix of conifer and deciduous trees throughout. This stand is borderline and could be called upland with lowland.
41	4319 - Mixed Upland Forest	Sawtimber Well	17.6	88	81-110	The scotch pine is along the south edge of the stand and to the west. This stand is a combination of covertime inclusions. Patches dominated by log cedar, log red pine, and sapling red maple are present in the mix. Trace hemlock and jack pine are present.
43	42220 - Natural Jack Pine	Sapling Medium	8.6	6	Immature	This stand is medium to well stocked with jack pine across a majority of the stand.
44	4130 - Aspen	Sapling Well	10.2	6	Immature	This stand is well stocked with aspen saplings and a low amount of red maple saplings.
45	4133 - Aspen, Mixed Pine	Poletimber Well	6.7	34	1-50	There old mound rows throughout. These mounds were likely created after the last harvest and were likely part of a scarification treatment.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4310 - Pine, Oak Mix	Sawtimber Well	12.1	80	81-110	The DBH of the white pine and red oak in this stand is highly variable. The white pine are 30 plus inches down to 8 inches and the red oak are 20 plus inches down to 6 inches. Legacy white pine are present throughout the stand.
47	4123 - Red Oak	Sawtimber Well	8.7	104	51-80	The white pine in the subcanopy are mostly to the south. The red oak are mid to poor quality. It might not serve any advantage to let them gain more size, especially considering their age.
48	42290 - Natural Mixed Pine	Sawtimber Well	21.2	80	111-140	The white pine DBH was somewhat smaller toward the center of the stand (14").
49	6113 - Lowland Maple	Sapling Poor	24.9	4	1-50	
50	6118 - Lowland Deciduous with Cedar	Poletimber Well	9.9	65	51-80	Veins of cedar are present throughout the stand. This is a borderline log stand.
51	6130 - Fir, Aspen, Maple	Poletimber Medium	123.4	36	1-50	This stand is highly variable in its tree species composition throughout. This stand is borderline too wet to harvest.
52	4311 - Pine, Aspen Mix	Sawtimber Well	4.6	97	81-110	The aspen will likely be on the ground in the next ten years. There is a lowland inclusion pocket dominated by red maple at the west end of the stand.
53	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.5	83	81-110	This stand is acting as a wildlife corridor and a buffer between two fairly large clear-cuts.
54	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	25.6	56	1-50	The canopy would have 50-75% coverage but the black ash is dead. Black and green ash greater than 3" DBH are dead due to EAB. This stand is too wet to harvest. The canopy is more dense and the BA is higher at the south end of the stand.
55	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	2.1	37	51-80	This a small pocket of sapling timber adjacent to a field to the south and log sized timber to the north and west.
56	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.9	37	51-80	This stand should be managed for the aspen and red maple. The log sized white pine, red pine, and red oak do fill up 30 percent of the canopy and therefore the stand is labeled as log sized.
57	42290 - Natural Mixed Pine	Sawtimber Well	9.0	71	141-170	Most of the X-log sized red pine is to the northeast. There is a high density of X-log sized white pine to the southeast. X-log sized white pine are present throughout the stand.
58	42200 - Natural White Pine	Sawtimber Well	55.5	85	141-170	Since this is a white pine stand and white pine stands are only 1% of the Alpena Lake Plains Management Area it would be best to let the aspen fall out of this stand and harvest in the future when perpetuating white pine would be more manageable. This stand should be kept in white pine as much as possible. This ground grows great white pine.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	42210 - Natural Red Pine	Sawtimber Well	2.3	72	111-140	This stand looks like a continuation of the red pine stand to the west in the next compartment over. This adjacent stand to the west was thinned and this stand was not. I would keep this stand for now for cover and age class diversity.
60	6112 - Lowland Aspen	Sapling Well	26.2	28	1-50	
61	42210 - Natural Red Pine	Sawtimber Well	17.2	90	141-170	There is a low area of red maple toward the center of the stand that is harvestable.
62	42210 - Natural Red Pine	Sapling Well	2.5	33	1-50	Dirt is present in berms all the way around this stand and there is a berm running east-west through the center of the stand. All the regeneration is natural and it is dog hair thick. It looks as if the whole stand was scarified and then seeded in. There is one large red pine in both the north and south ends of the stand that could have acted like a seed tree.
63	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	60.1	26	1-50	This stand is very wet. They must have harvested this stand during a deep freeze.
64	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	10.9	45	1-50	
65	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	23.7	45	1-50	The northern white cedar are present mostly in pockets but are scattered throughout. The basal area is highly variable due to the cedar pockets. There is some (but not much) cedar regeneration in with the younger age class.
66	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	7.6	54	1-50	The northern most portion of this stand is a log sized inclusion with red maple, northern white cedar, and white spruce.
68	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	98.9	77	81-110	This is almost a log stand. It is estimated that log trees make up just less than 30 percent of the canopy.
72	42290 - Natural Mixed Pine	Sawtimber Well	3.6	73	81-110	This is a unique isolated island stand.
73	6112 - Lowland Aspen	Sapling Medium	39.8	26	1-50	There are trace amounts of black spruce, American elm, and balsam poplar present. There is a very diverse pocket in the southern portion of the stand with pine and oak that should be retained in a far future harvest. Once the ash get to around the 4 inch mark EAB is killing them. Once the tamarack get to about 4" DBH the porcupine are killing them. The oak and pine are mostly in the southern third of the stand.
74	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	70.8	108	141-170	This stand is quite variable. There is quite a bit of upland area in this stand but a majority of it is lowland.
75	4319 - Mixed Upland Forest	Sawtimber Well	5.1	79	81-110	This stand would be hard to access for harvesting.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
78	42210 - Natural Red Pine	Sawtimber Well	6.3	120	171-200	This upland stand offers coverytype diversity amongst a sea of lowland stands. All most of the northern white cedar are along outer edges at the base of this red pine ridge. The main body of the stand on the ridge is upland red pine, but there is a lowland inclusion on the north edge of the stand at the west end. The red and white pine to the west end of the stand are larger in diameter (mostly Xlog, likely due to the openness of the area).
80	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	27.9	78	51-80	There is a pocket of log sized timber in the northeast corner of the stand. There are inclusion areas of varying lowland coverytypes along the outer edges of this stand. This stand is really a continuation of stand 90 to the south.
81	42210 - Natural Red Pine	Sawtimber Well	66.1	84	111-140	This stand adds diversity to the immediate are and should be maintained as is for know. Thins at later date. The basal area varies from 80-220. On average the BA is between 110-140. In pockets the average red pine BA can be as high as 15. The trees around the outer edges are significantly larger in diameter (often Xlog). This is a really nice isolated red pine stand. The quality of the red pine is variable, but mostly medium to high quality. The percentage of live crown is on average between 20-25% for the red pine.
82	6120 - Lowland Cedar	Sawtimber Well	5.6	97	111-140	This is a borderline pole stand. There is black ash at the south end (5-7" DBH) that is mostly dead (2% of canopy). This stand is too wet to harvest.
83	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	46.7	79	81-110	The red maple vary in diameter (6-18" DBH).
84	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	31.0	108	Unspecified	The western most 1/5th of the stand is an inclusion with varying coverytypes throughout. This western portion of the stand has a higher percentage of pole sized timber than the rest of the stand. The trace red oak present have a large amount of dieback in their crowns. Without the western inclusion, red maple make up a slightly higher percentage of the canopy than the cedar.
85	6139 - Mixed Lowland Forest	Sawtimber Medium	42.1	79	1-50	The canopy has 25-50 percent closure in some areas. The northern half of the stand is log sized and the southern portion is slightly to the pole size. This was called a log sized stand, but is a borderline pole sized stand. The black ash and green ash over 4" DBH are mostly dead due to EAB and would have made up about 10 percent of the canopy if they were still alive. There is an upland strip in the most northern, narrow portion of the stand. The basal are varies. The stand has pockets that are in the 50-80 BA range and even higher BA's in the cedar pockets.
86	6139 - Mixed Lowland Forest	Poletimber Poor	12.1	75	1-50	The black ash are standing dead snags (2-5" DBH). The upland inclusion pocket at the east end of the stand is dominated by log size red pine, white pine, bigtooth aspen, white spruce, and red maple. This stand is too wet to harvest.
87	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	18.9	54	1-50	The black ash present are dead standing snags. This stand is too wet to harvest.
88	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	21.2	95	111-140	The aspen need to be cut before they fall down, although one bigtooth cored was solid al the way through.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
89	6120 - Lowland Cedar	Sawtimber Well	71.9	105	141-170	Portions of this stand are pole timber with an average diameter of 8-9" DBH. This stand is too wet and isolated to harvest. One 9" DBH northern white cedar cored at 116+15 = 131 years. Overall the average age of the northern white cedar is around 105 years. Black ash 4" in DBH and larger are mostly dead due to EAB.
90	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	16.0	78	51-80	This stand is really a continuation of stand 80 to the north.
94	429 - Mixed Upland Conifers	Sawtimber Well	15.0	93	111-140	Retain this stand to add some open upland to an area with mostly dense lowland deciduous forest. The trace pole sized red oak present are dying from the crown down. This seems to be common for the trace red oak in the stands in this are no matter the size. This land is only slightly higher ground than the surrounding lowlands.
97	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	19.6	91	51-80	There is a 2 acre upland inclusion island at the north end of the stand that is dominated by balsam fir (6-12") and white spruce (10-13"). The basal area in the northern region of the stand drops to around 30-50. This stand is wet throughout but might be harvestable in dry summer or frozen winter.
99	6120 - Lowland Cedar	Sawtimber Well	18.4	107	111-140	Wind thrown cedar are scattered throughout the stand. This stand is too wet to harvest. Patches of sapling/pole lowland deciduous timber are present in the more wet areas. The basal area varied from 40-150. Old 18" plus DBH aspen are dying throughout the northern portion of the stand.
100	6120 - Lowland Cedar	Sawtimber Well	9.5	105	141-170	There is a trace amount of hemlock present in this stand.
101	6120 - Lowland Cedar	Sawtimber Well	16.1	101	141-170	
102	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	17.9	66	51-80	The northeast portion of the stand in the 40 to the east is younger with the same covertype, although it still qualifies as pole timber. Along the edge of the stand to the southeast (transition zone) and in various pockets this could be called a log stand. In many instances the red maple are dying just as they approach log size. There is a trace element of red and white pine in the overstory. The red oak is mostly vigorous sapling to pole sized trees.
103	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	7.2	57	51-80	The residual white pine left over from the last harvest vary in age and are older than the aspen.
104	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	9.2	53	51-80	To the extreme east and west ends of the stand the timber is more in the log size, where as the middle 75 percent of the stand is pole timber.
105	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	5.6	42	51-80	This stand has a pocket of larger northern white cedar in the center and is really the combination of a small coniferous stand and a small deciduous stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
106	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	11.5	86	111-140	There are a couple large red pine in the stand.
107	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	16.0	101	81-110	There is a consistent layer of shrubs in the understory and in lower lying pockets where there is minimal overstory. This stand might be too wet to harvest.
108	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	7.1	73	51-80	This stand is too wet to harvest.
109	42210 - Natural Red Pine	Sawtimber Well	10.8	88	111-140	These red pine have received more sunlight than adjacent red pine stands likely contributing to the slightly higher average DBH. This stand has multiple veins of lowland red maple running through it.
110	6119 - Mixed Lowland Deciduous Forest	Sapling Well	4.3	35	1-50	
111	6113 - Lowland Maple	Poletimber Well	8.5	65	51-80	The north end of the stand is borderline log. The red pine and the red oak are in the west finger of the stand. Trace white spruce and northern white cedar are present. The south end of the stand is an inclusion and is more to the pole and sapling size than the north end.
112	4319 - Mixed Upland Forest	Sawtimber Well	6.2	83	111-140	This is a borderline lowland stand. All quaking aspen and red pine are ready to be harvested. The red pine are showing little growth.
113	4131 - Aspen, Oak	Poletimber Medium	5.5	39	51-80	
114	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.2	69	81-110	The age of this stand varies highly throughout due to various management, disturbances, and covertype inclusions.
116	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	4.8	83	51-80	This stand is too wet to harvest.
117	42210 - Natural Red Pine	Sawtimber Well	7.3	75	111-140	
118	42290 - Natural Mixed Pine	Sawtimber Well	21.0	75	81-110	There is one acre of all bigtooth aspen in the southwest corner of the stand. The red pine grew fast on this site.
119	6123 - Lowland Fir	Sapling Medium	17.7	26	Immature	This stand has been harvested before but currently it is too wet to harvest.



Stand	Cover Type	Acres	Managed Site	General Comments:
10	122 - Road/Parking Lot	10.7	No	
27	122 - Road/Parking Lot	7.4	No	
42	3103 - Rubus-Fern	8.4	No	This basically a fern covered opening with small patches of aspen present as well as scattered log sized red oak. Sapling to pole sized jack pine and white pine border the stand to the south and to the east.
67	6220 - Alder/willow	0.8	No	
69	6220 - Alder/willow	8.6	No	
70	3303 - Mixed Low Density Trees	0.8	No	About 15 percent of the stand has raspberry present.
71	6220 - Alder/willow	6.4	No	
76	6220 - Alder/willow	49.3	No	
77	330 - Low-Density Trees	8.0	No	
91	623 - Emergent Wetland	4.7	No	The whole area looks to be covered with water. 40% looks to be open water and the other 60% is flooded with tall (5ft or so) grass. The outer edge is an encompassing thin line of tag alder.
92	330 - Low-Density Trees	9.4	No	